

What Is Claimed Is:

1 1. A device for supplying a commentary stream related to a
2 data unit via a network, comprising:

3 a server, for storing a commentary stream which has first
4 commentary information and corresponding navigation commands,
5 and outputting the commentary stream according to a data unit
6 identifier; and

7 a client end, for reading the data unit identifier,
8 outputting the data unit identifier to the server via the
9 network, receiving the commentary stream via the network, then
10 providing second commentary information from the unit data
11 according to the navigation commands, and then outputting
12 commentary information corresponding to a combination of the
13 first commentary information and the second commentary
14 information.

1 2. The device as claimed in claim 1, wherein said client end
2 comprises:

3 a first RNS receiver for receiving the commentary stream;
4 an RNS parser, coupled to said RNS receiver, parses the
5 commentary stream into the navigation commands, first audio
6 data, first video data, text commands, and drawing commands; and

7 a data unit navigator, coupled to said RNS parser, for
8 getting the second commentary information from the data unit
9 according to the navigation commands.

1 3. The device as claimed in claim 2, wherein said server
2 comprises:

3 a data base for storing the commentary stream; and

4 a first RNS transmitter for transmitting the commentary
5 stream.

1 4. The device as claimed in claim 2, wherein the client end
2 further comprises:

3 a data unit reading module, coupled to said data unit
4 navigator, for reading the data unit so as to get the data unit
5 identifier and reading the second commentary information
6 according to the navigation commands;

7 an audio module, coupled to said RNS parser and said data
8 unit navigator, for receiving the first audio data and an audio
9 part of the second commentary information; and

10 a video module, coupled to said RNS parser and said DVD
11 navigator, for receiving the first video data, the text
12 commands, the drawing commands, and an audio part and a subtitle
13 part of the second commentary information.

1 5. The device as claimed in claim 4, wherein the client end
2 further comprises:

3 a navigation recorder, coupled to said data unit navigator,
4 for recording data extracted from the data unit by a user;

5 an RNS multiplexer, coupled to said navigation recorder,
6 for receiving the extracted data, and voices, images, and texts
7 provided by the user, and outputting a client commentary stream;

8 a second RNS transmitter, coupled to said RNS multiplexer,
9 for transmitting the client commentary stream.

1 6. The device as claimed in claim 5, wherein the client end
2 further comprises a buffer for storing the client commentary
3 stream.

1 7. The device as claimed in claim 5, wherein the server
2 further comprises:

3 a second RNS receiver, for receiving the client commentary
4 stream; and

5 a switch for switching between said data base and said second
6 RNS receiver so as to select the commentary stream or the client
7 commentary stream to output to said first RNS transmitter.

1 8. The device as claimed in claim 7, wherein the data unit
2 is a DVD disc and the second commentary information is specific
3 DVD data.

1 9. The device as claimed in claim 8, wherein the data unit
2 reading module comprises:

3 a DVD player for reading the DVD disc to get a DVD identifier,
4 outputting the DVD identifier to said server via the network,
5 and reading the specific DVD data according to the navigation
6 commands; and

7 an UDF (Universal Disc Format) file system, which is a storing
8 format for the specific DVD data.

1 10. The device as claimed in claim 9, wherein the audio
2 module comprises:

3 an audio decoder, for receiving and decoding an audio part
4 of the specific DVD data and outputting second audio data; and

5 a sound device, for receiving the second audio data and
6 outputting corresponding sounds.

1 11. The device as claimed in claim 9, wherein the audio
2 module comprises:
3 an audio decoder, for receiving and decoding an audio part
4 of the specific DVD data and outputting second audio data;
5 a compressed voice decoder, for receiving and decompressing
6 the first audio data and outputting third audio data;
7 an audio mixer, for mixing the second audio data and the
8 third audio data so as to generate mixed audio data; and
9 a sound device, for receiving the mixed audio data and
10 outputting corresponding sounds.

1 12. The device as claimed in claim 11, wherein the video
2 module comprises:
3 a video decoder, for receiving and decoding a video part of
4 the specific DVD data and outputting second video data;
5 a subtitle decoder, for receiving and decoding a subtitle
6 part of the specific DVD data and outputting third video data;
7 a text render, for receiving and decoding the text commands
8 and outputting fourth video data;
9 a drawer, for receiving and executing the drawing commands
10 so as to generate marks on specific areas of the video part of
11 the specific DVD data;
12 a video mixer, for mixing the second video data, the third
13 video data, the fourth video data, the marks so as to generate
14 mixed video data; and
15 a display device, for receiving the mixed video data and
16 outputting corresponding images.

1 13. The device as claimed in claim 12, wherein said video
2 decoder further receives and decodes the first video data.

1 14. A method for supplying a commentary stream related to
2 a data unit via a network, comprising the steps of:
3 getting a data unit identifier of the data unit from the
4 client end;
5 transmitting the data unit identifier from the client end
6 to a server through a network;
7 outputting from the server a commentary stream having first
8 commentary information and navigation commands according to the
9 data unit identifier;
10 providing from the data unit at the client end second
11 commentary information according to the navigation commands;
12 and
13 outputting commentary information corresponding to a
14 combination of the first commentary and the second commentary
15 information.

1 15. The method as claimed in claim 14, wherein the commentary
2 stream comprises the navigation commands, text commands, and
3 drawing commands.

1 16. The method as claimed in claim 15, wherein the commentary
2 stream further comprises audio data and video data.

1 17. The method as claimed in claim 16, wherein the data unit
2 is a DVD disc.

2001-01-08

File:0613-5725USF/CYY/Robert

- 1 18. The method as claimed in claim 17, wherein the network
- 2 is the Internet.

0974725-01.001